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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/673,068

09/26/2003

Hea-Chun Lee

SWO-0004

9296

7590

03/24/2005

David A. Fox
Cantor Colburn LLP
55 Griffin Road South
Bloomfield, CT 06002

EXAMINER

NGUYEN, DUNG T

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/673,068

Applicant(s)

LEE, HEA-CHUN

Examiner

Dung Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 6-7, 10 and 19 are rejected under 35 U.S.C 102(b) as being anticipated by Hashimoto et al., US Patent No. 5,956,107.

The above claims are anticipated by Hashimoto et al. figure 2 which disclose a liquid crystal display (LCD) apparatus (200) comprising:

- . an LCD panel (4);
- . a plurality of light guide plates (1a and 9);
- . a backlight assembly (5-8);

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. a lamp assembly (3, 8).

5. Claims 1-3, 4, 6-10, 13-19 are rejected under 35 U.S.C 102(b) as being anticipated by Iwamoto et al., US Patent No. 5,046,826.

The above claims are anticipated by Iwamoto et al. figures 1 and 7 which disclose a liquid crystal display (LCD) apparatus (figure 1) comprising:

- . an LCD panel (6);
- . a plurality of guide plates (108) having a spacing part (107-2) therebetween;
- . a backlight assembly (reflector/auxiliary reflector 103-1, diffuser 104 having a convexo-concave pattern, figure 7);
- . a lamp assembly (101-1 and lamp reflector 103-1);
- . a mold frame (107).

It should be noted that the method claims 13-18 would be inherent over the device claims since there is no specific method to form such display device being claim.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwamoto et al., US Patent No. 5,046,826.

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Regarding claim 5, Iwamoto et al. disclose the claimed invention as described above except for a blocking protrusion. One of ordinary skill in the art would have realized the desire to form a blocking protrusion to block a reflector in a fixed position. Therefore, it would have been obvious to one skilled in the art at the time of the invention was made employ a blocking protrusion in the Iwamoto et al. auxiliary reflector in order to avoid a movable auxiliary-reflector by blocking the auxiliary reflector in a fixed position.

8. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto et al., US Patent No. 5,956,107 and/or Iwamoto et al., US Patent No. 5,046,826, in view of Applicant's admitted prior art (APA), figure 1.

Regarding claims 11-12, Hashimoto et al. and/or Iwamoto et al. disclose the claimed invention as described above except for a front frame as well as a printer circuit board (PCB) and a flexible printer circuit (FPC). APA, figure does disclose a front frame (126) and PCB/FPC (150/140) can be formed in a display device (100). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ a front frame and PCB/FPC in the Hashimoto et al. and/or Iwamoto et al. device, since it is a common practice in the art for supporting a light guiding plate as well as driving the display through PCB/FPC.

Conclusion

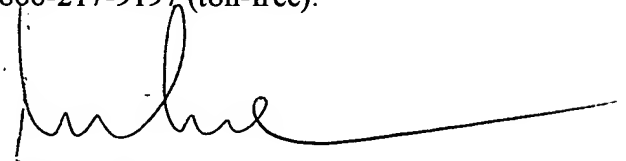
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN
03/21/2005



Dung Nguyen
Primary Examiner
Art Unit 2871